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NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

Vol. 16, No. 21

WEEKLY REPORT

Week Ending May 27, 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

UNIVERSITY OF FLORIDA JUL 1967 DOCUMENTS DEPT.

EPIDEMIOLOGIC NOTES AND REPORTS

ASEPTIC MENINGITIS – Eagle Butte, South Dakota

In an outbreak of aseptic meningitis in Eagle Butte, a small community in west-central South Dakota adjacent to a Sioux Indian reservation, between April 1 and May 9, 1967, 13 patients were hospitalized in the USPHS Indian Hospital with illnesses characterized by fever, headache, and stiff neck. Of 12 lumbar punctures performed, 8 revealed CSF leukocytosis. In addition to the 13 hospitalized cases, 101 milder illnesses were uncovered, characterized principally by headache. Fever and stiff neck were infrequent among this group, and in general symptoms lasted three to five days. Of the 114 suspect cases thus far seen, 70 were in grade school students in a dormitory housing 300.

ECHO virus type 4 has been recovered from five patients and may be the predominent causative agent. Epidemiologic and laboratory studies are in progress. *(Reported by G.J. Van Heuvelen, M.D., State Health Officer, South Dakota State Department of Health.)*

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	21st WEEK ENDED		MEDIAN	CUMULATIVE, FIRST 21 WEEKS		
	MAY 27, 1967	MAY 28, 1966	1962 - 1966	1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis	49	35	24	673	586	574
Brucellosis	5	9	8	91	90	136
Diphtheria	1	1	2	41	65	104
Encephalitis, primary:						
Arthropod-borne & unspecified	21	27	- - -	514	509	- - -
Encephalitis, post-infectious	18	15	- - -	353	356	- - -
Hepatitis, serum	35	32	750	798	528	18,350
Hepatitis, infectious	712	744		16,542	14,213	
Malaria	38	8	1	796	115	35
Measles (rubeola)	2,244	6,543	15,956	48,511	156,304	279,444
Meningococcal infections, total	50	88	52	1,226	2,050	1,363
Civilian	47	79	- - -	1,134	1,811	- - -
Military	3	9	- - -	92	239	- - -
Poliomyelitis, total	1	–	1	9	9	31
Paralytic	1	–	1	8	8	25
Rubella (German measles)	2,000	2,075	- - -	28,948	32,463	- - -
Streptococcal sore throat & scarlet fever	9,237	8,960	6,661	244,105	232,919	216,574
Tetanus	3	7	7	59	49	82
Tularemia	3	2	5	58	56	83
Typhoid fever	8	6	7	131	119	138
Typhus, tick-borne (Rky. Mt. spotted fever)	4	5	5	35	21	22
Rabies in animals	100	92	79	1,894	1,845	1,842

NOTIFIABLE DISEASES OF LOW FREQUENCY

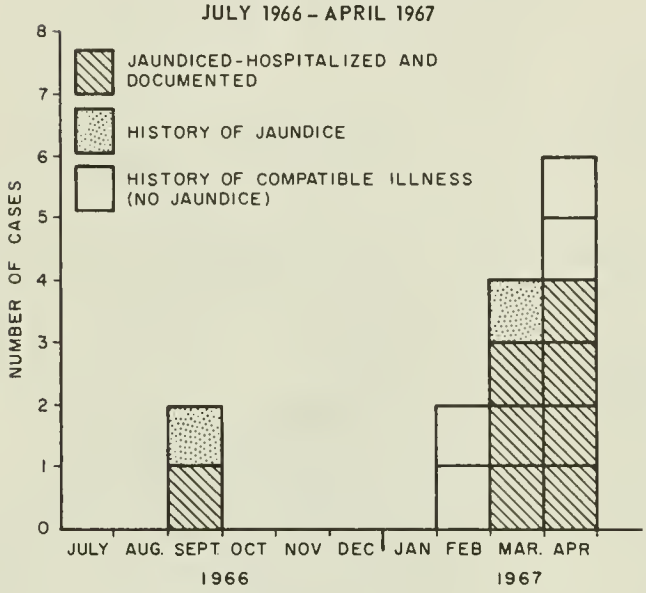
	Cum.		Cum.
Anthrax	2	Rabies in man	–
Botulism	–	Rubella, Congenital Syndrome	3
Leptospirosis Hawaii-1	15	Trichinosis	32
Plague	–	Typhus, murine: Texas-1	14
Psittacosis	17	Polio, unsp	1

NARCOTICS-ASSOCIATED HEPATITIS – New Jersey

An outbreak of 14 cases of viral hepatitis occurred among a group of 57 known or suspected narcotics addicts in one county of New Jersey between September 1966 and May 1967. Of these, 12 were concentrated during February, March, and April 1967. Fifty-five of the 57 addicts were male; their ages ranged from 17 to 36 years; 49 were between 18 and 24 years old.

Eight of the 14 cases were hospitalized with jaundice; two had a history of jaundice and four the anicteric form of the illness. Figure 1 shows the month of onset of these cases.

Figure 1
VIRAL HEPATITIS AMONG NARCOTICS ADDICTS
BY MONTH OF ONSET – A NEW JERSEY COUNTY
JULY 1966 – APRIL 1967



All of the 14 patients were known to have shared injection equipment with at least one person who either had been ill with hepatitis or subsequently developed the disease. There was such extensive sharing among different addicts and repeated use by individual addicts that valid incubation periods could not be determined.

A single serum specimen was collected during the week of April 24 from 55 of the 57 addicts in the group. Serum glutamic pyruvic transaminase (SGPT) values are shown in Table 1. Forty-three had no history of illness or jaundice in the preceding 6 months, but 29 (67 percent) had SGPT values above 40, well above normal levels. Moreover, 12 values were above 100.

Table 2 examines the serum transaminase results among the 43 non-ill addicts according to the history of having shared narcotics equipment with one or more of the 14 known cases. Twenty-two had shared equipment with at least one of the addicts with hepatitis, and 21 did not admit such sharing. Of the former group, 19 (90 percent) had SGPT values above 40. Among the 21 in the latter group, only 10 (48 percent) had values above 40. Thus, the sharing of injection equipment with an addict who had hepatitis was associated with a greater frequency of elevated SGPT values.

(Reported by W.J. Dougherty, M.D., Director, Division of Preventable Diseases, New Jersey State Department of Health; and an EIS Officer.)

Table 1
SGPT Values Among 57 Addicts

SGPT Values	Addict Group			
	Jaundiced & Hospitalized	History of Jaundice/ Not Documented	Compatible Illness/ Not Jaundiced	No Illness or Jaundice
Not done	2	–	–	–
0-29	2	2	3	12
30-39	–	–	1	2
40-49	3	–	–	17
100-299	1	–	–	6
300+	–	–	–	6
Total	8	2	4	43

Table 2
SGPT Values Among 43 Addicts with no History of Jaundice or Compatible Illness

	SGPT < 40	SGPT > 40	Total
Persons who admitted sharing with addict who had hepatitis	3	19	22
Persons who did not admit sharing with addict who had hepatitis	11	10	21
Total	14	29	43

TYPHOID FEVER – Louisiana

A familial outbreak of typhoid fever caused by *Salmonella typhi*, phage type B_2, occurred in northwestern Louisiana in December 1966 and January 1967. Eight of the 14 persons identified as being infected had clinical symptoms; 6 were asymptomatic. The source of infection was not determined.

The index case was reported from a rural section of Red River Parish, 30 miles south of Shreveport. The patient began having sweats, chills, and fever on December 5. He continued to attend school until December 8, when he first consulted a physician. His temperature was then 104°F. The physician gave him penicillin and streptomycin for four days, but his condition did not improve. He stayed at home in bed until December 18, when he was advised to go to a Shreveport hospital. After spending the

(Continued on page 176)

REPORTED CASES OF POST-INFECTIOUS ENCEPHALITIS – FIRST QUARTER ENDING APRIL 1, 1967 (Weeks 1-13)

State	Mumps	Measles	Chickenpox	Other Specified
Alaska	1			
Arkansas	1			
California	32	1	4	
Connecticut	3			
Florida	25	2		Herpes-1, Herpes Simplex-1
Georgia	1			
Illinois	6		2	Smallpox Vaccination-1
Iowa		1		
Maryland	5		3	Cryptococcal-1
Massachusetts	1			
Michigan	14	2	1	
Minnesota	3		1	
New York, Upstate	2			
Oregon		1		
Pennsylvania	11		2	
South Dakota		1	1	
Tennessee	14		1	
Texas	7	1	1	
Virginia	4	1		Pertussis-1
Washington	4	1		
First Quarter Total				
1967	134	17	16	
1966	107	62	28	

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas April 1967 and April 1966 - Provisional Data

Reporting Area	APRIL		Cumulative Jan - Apr	
	1967	1966	1967	1966
NEW ENGLAND	25	24	127	164
Maine	-	1	-	3
New Hampshire	1	-	5	4
Vermont	-	-	2	1
Massachusetts	17	14	80	110
Rhode Island	2	6	8	11
Connecticut	5	3	32	35
MIDDLE ATLANTIC	279	333	1,173	1,456
Upstate New York	18	33	86	142
New York City	167	213	699	934
Pa. (Excl. Phila.)	16	14	90	76
Philadelphia	26	20	93	87
New Jersey	52	53	205	217
EAST NORTH CENTRAL	320	279	1,089	1,016
Ohio	73	58	229	197
Indiana	8	4	37	22
Downstate Illinois	16	16	53	70
Chicago	105	80	331	339
Michigan	111	110	425	350
Wisconsin	7	11	14	38
WEST NORTH CENTRAL	27	29	85	156
Minnesota	2	1	12	7
Iowa	4	2	10	22
Missouri	11	13	28	73
North Dakota	-	-	-	4
South Dakota	-	3	11	19
Nebraska	2	5	11	14
Kansas	8	5	13	17
SOUTH ATLANTIC	477	583	2,015	2,141
Delaware	2	4	13	10
Maryland	48	45	213	180
Oistrict of Columbia	49	44	213	152
Virginia	24	28	99	103
West Virginia	2	3	6	21
North Carolina	65	81	236	330
South Carolina	76	81	297	313
Georgia	77	93	313	368
Florida	134	204	625	664

Reporting Area	APRIL		Cumulative Jan - Apr	
	1967	1966	1967	1966
EAST SOUTH CENTRAL	129	194	601	762
Kentucky	9	4	39	41
Tennessee	30	27	89	102
Alabama	68	106	337	399
Mississippi	22	57	136	220
WEST SOUTH CENTRAL	246	198	985	856
Arkansas	8	10	45	63
Louisiana	52	44	204	215
Oklahoma	13	13	42	53
Texas	173	131	694	525
MOUNTAIN	56	32	215	127
Montana	2	7	3	16
Idaho	2	1	14	1
Wyoming	2	-	4	-
Colorado	10	4	30	17
New Mexico	19	5	63	27
Arizona	20	13	95	58
Utah	-	-	1	4
Nevada	1	2	5	4
PACIFIC	161	173	637	665
Washington	5	2	22	17
Oregon	-	7	14	18
California	156	163	440	620
Alaska	-	-	1	2
Hawaii	-	1	4	8
U. S. TOTAL	1,720	1,845	6,927	7,343
TERRITORIES	85	81	297	326
Puerto Rico	79	78	281	319
Virgin Islands	6	3	16	7

Note: Cumulative Totals include revised and delayed reports through previous months.

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
MAY 27, 1967 AND MAY 28, 1966 (21st WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			
					Primary including unsp. cases		Post-Infectious	Serum		Infectious	
	1967	1966	1967	1967	1967	1966	1967	1967	1966	1967	1966
UNITED STATES...	49	35	5	1	21	27	18	35	32	712	744
NEW ENGLAND.....	-	-	-	-	-	-	2	1	2	30	14
Maine.....	-	-	-	-	-	-	-	-	-	1	2
New Hampshire....	-	-	-	-	-	-	-	-	-	2	1
Vermont.....	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	-	-	-	-	18	5
Rhode Island.....	-	-	-	-	-	-	1	-	1	3	3
Connecticut.....	-	-	-	-	-	-	1	1	1	6	3
MIDDLE ATLANTIC.....	6	5	-	-	1	7	3	15	18	124	122
New York City.....	1	-	-	-	-	2	-	12	13	53	22
New York, up-State.	1	1	-	-	1	-	-	-	2	18	42
New Jersey.....	2	2	-	-	-	5	-	3	2	31	26
Pennsylvania.....	2	2	-	-	-	-	3	-	1	22	32
EAST NORTH CENTRAL...	4	4	-	-	7	5	5	2	1	129	117
Ohio.....	-	1	-	-	7	2	-	1	-	20	36
Indiana.....	1	-	-	-	-	2	-	-	-	16	12
Illinois.....	1	3	-	-	-	1	2	-	1	46	16
Michigan.....	2	-	-	-	-	-	3	1	-	33	49
Wisconsin.....	-	-	-	-	-	-	-	-	-	14	4
WEST NORTH CENTRAL...	-	-	-	-	-	-	1	-	1	36	131
Minnesota.....	-	-	-	-	-	-	1	-	-	7	3
Iowa.....	-	-	-	-	-	-	-	-	-	2	17
Missouri.....	-	-	-	-	-	-	-	-	1	25	107
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	1
Nebraska.....	-	-	-	-	-	-	-	-	-	-	1
Kansas.....	-	-	-	-	-	-	-	-	-	2	2
SOUTH ATLANTIC.....	4	4	2	1	2	2	-	1	2	102	92
Delaware.....	-	2	-	-	-	-	-	-	-	1	-
Maryland.....	-	-	-	-	1	-	-	1	1	7	33
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	2	1
Virginia.....	-	-	2	-	1	-	-	-	-	30	8
West Virginia.....	2	-	-	-	-	-	-	-	-	8	3
North Carolina.....	-	-	-	-	-	1	-	-	-	10	11
South Carolina.....	-	-	-	1	-	-	-	-	-	10	-
Georgia.....	-	-	-	-	-	-	-	-	-	11	15
Florida.....	2	2	-	-	-	1	-	-	1	23	21
EAST SOUTH CENTRAL...	3	5	-	-	2	-	1	-	1	36	62
Kentucky.....	-	4	-	-	2	-	-	-	-	9	27
Tennessee.....	3	1	-	-	-	-	1	-	1	12	14
Alabama.....	-	-	-	-	-	-	-	-	-	6	5
Mississippi.....	-	-	-	-	-	-	-	-	-	9	16
WEST SOUTH CENTRAL...	5	6	3	-	1	-	1	-	1	59	40
Arkansas.....	-	-	-	-	-	-	-	-	-	2	6
Louisiana.....	-	-	-	-	1	-	1	-	-	15	10
Oklahoma.....	-	-	-	-	-	-	-	-	-	3	3
Texas.....	5	6	3	-	-	-	-	-	1	39	21
MOUNTAIN.....	-	1	-	-	2	5	-	-	2	27	18
Montana.....	-	-	-	-	-	-	-	-	-	2	4
Idaho.....	-	-	-	-	-	-	-	-	-	-	1
Wyoming.....	-	-	-	-	-	1	-	-	-	-	-
Colorado.....	-	1	-	-	2	4	-	-	-	7	8
New Mexico.....	-	-	-	-	-	-	-	-	-	7	5
Arizona.....	-	-	-	-	-	-	-	-	1	11	-
Utah.....	-	-	-	-	-	-	-	-	1	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	27	10	-	-	6	8	5	16	4	169	148
Washington.....	-	1	-	-	-	-	-	-	-	37	7
Oregon.....	-	-	-	-	-	-	-	-	-	13	13
California.....	11	7	-	-	6	7	5	16	4	119	124
Alaska.....	-	-	-	-	-	1	-	-	-	-	4
Hawaii.....	16	2	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	-	-	13	22

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MAY 27, 1967 AND MAY 28, 1966 (21st WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS			RUBELLA
			Cumulative			Cumulative		Total	Paralytic		
	1967	1967	1967	1966	1967	1967	1966	1967	1967	Cum. 1967	1967
UNITED STATES...	38	2,244	48,511	156,304	50	1,226	2,050	1	1	8	2,000
NEW ENGLAND.....	-	73	651	1,827	4	56	92	-	-	-	258
Maine.....	-	56	196	179	-	3	8	-	-	-	10
New Hampshire.....	-	1	71	42	-	2	8	-	-	-	34
Vermont.....	-	2	38	212	-	-	3	-	-	-	21
Massachusetts.....	-	6	229	658	4	29	35	-	-	-	117
Rhode Island.....	-	6	52	68	-	3	10	-	-	-	6
Connecticut.....	-	2	65	668	-	19	28	-	-	-	70
MIDDLE ATLANTIC.....	3	130	1,691	16,425	9	188	230	-	-	2	94
New York City.....	-	27	303	7,851	-	31	34	-	-	1	42
New York, Up-State.	-	15	375	1,989	-	43	63	-	-	-	52
New Jersey.....	3	26	404	1,710	6	75	65	-	-	-	-
Pennsylvania.....	-	62	609	4,875	3	39	68	-	-	1	-
EAST NORTH CENTRAL...	-	261	4,096	56,974	4	146	320	-	-	-	365
Ohio.....	-	98	793	5,455	1	55	86	-	-	-	23
Indiana.....	-	46	504	4,411	-	21	56	-	-	-	22
Illinois.....	-	17	661	10,415	1	31	61	-	-	-	38
Michigan.....	-	43	819	9,936	2	30	84	-	-	-	76
Wisconsin.....	-	57	1,319	26,757	-	9	33	-	-	-	206
WEST NORTH CENTRAL...	1	186	2,248	7,345	4	55	112	-	-	-	103
Minnesota.....	-	2	105	1,551	1	12	26	-	-	-	8
Iowa.....	-	49	624	4,410	-	11	16	-	-	-	73
Missouri.....	-	67	211	411	1	12	46	-	-	-	-
North Dakota.....	-	19	726	897	-	-	5	-	-	-	6
South Dakota.....	-	-	46	6	-	6	4	-	-	-	-
Nebraska.....	1	19	499	70	-	8	8	-	-	-	16
Kansas.....	-	30	37	NN	2	6	7	-	-	-	-
SOUTH ATLANTIC.....	21	214	5,594	11,914	9	235	327	-	-	1	133
Delaware.....	-	-	36	206	-	5	4	-	-	-	-
Maryland.....	-	1	99	1,789	2	29	31	-	-	1	18
Dist. of Columbia..	-	4	16	360	-	8	7	-	-	-	-
Virginia.....	1	77	1,750	1,414	2	23	42	-	-	-	49
West Virginia.....	-	64	1,084	4,218	2	19	10	-	-	-	22
North Carolina.....	6	6	798	245	1	47	84	-	-	-	-
South Carolina.....	1	2	425	528	-	23	41	-	-	-	3
Georgia.....	12	1	24	218	1	34	45	-	-	-	-
Florida.....	1	59	1,362	2,936	1	47	63	-	-	-	41
EAST SOUTH CENTRAL...	-	159	4,510	16,984	3	107	180	1	1	1	88
Kentucky.....	-	21	1,122	4,324	1	30	73	-	-	-	32
Tennessee.....	-	52	1,555	10,365	2	46	57	-	-	-	55
Alabama.....	-	74	1,198	1,446	-	19	38	-	-	-	1
Mississippi.....	-	12	635	849	-	12	12	1	1	1	-
WEST SOUTH CENTRAL...	-	438	15,621	19,433	5	176	301	-	-	4	14
Arkansas.....	-	8	1,376	744	2	22	23	-	-	-	-
Louisiana.....	-	3	123	78	1	67	115	-	-	-	-
Oklahoma.....	-	9	3,294	420	-	11	17	-	-	1	-
Texas.....	-	418	10,828	18,191	2	76	146	-	-	3	14
MOUNTAIN.....	2	138	3,656	9,447	-	24	69	-	-	-	155
Montana.....	-	3	245	1,477	-	-	4	-	-	-	2
Idaho.....	-	3	337	1,091	-	1	5	-	-	-	-
Wyoming.....	-	7	53	103	-	1	3	-	-	-	-
Colorado.....	2	85	1,088	933	-	10	37	-	-	-	95
New Mexico.....	-	4	526	959	-	3	9	-	-	-	-
Arizona.....	-	34	852	4,500	-	4	8	-	-	-	58
Utah.....	-	2	291	351	-	3	-	-	-	-	-
Nevada.....	-	-	264	33	-	2	3	-	-	-	-
PACIFIC.....	11	645	10,444	15,955	12	239	419	-	-	-	790
Washington.....	-	344	4,980	2,817	-	22	32	-	-	-	237
Oregon.....	-	91	1,367	1,103	1	22	28	-	-	-	22
California.....	3	201	3,879	11,823	10	185	341	-	-	-	516
Alaska.....	-	5	117	123	-	8	15	-	-	-	2
Hawaii.....	8	4	101	89	1	2	3	-	-	-	13
Puerto Rico.....	-	74	1,735	1,960	-	8	6	-	-	-	4

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MAY 27, 1967 AND MAY 28, 1966 (21st WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES...	9,237	3	59	3	58	8	131	4	35	100	1,894
NEW ENGLAND.....	1,502	-	-	-	-	-	1	-	-	1	43
Maine.....	29	-	-	-	-	-	-	-	-	1	11
New Hampshire.....	30	-	-	-	-	-	-	-	-	-	25
Vermont.....	21	-	-	-	-	-	-	-	-	-	7
Massachusetts.....	192	-	-	-	-	-	1	-	-	-	-
Rhode Island.....	87	-	-	-	-	-	-	-	-	-	-
Connecticut.....	I,143	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	487	-	5	-	-	-	15	-	-	3	35
New York City.....	23	-	3	-	-	-	9	-	-	-	-
New York, Up-State.	382	-	1	-	-	-	4	-	-	3	26
New Jersey.....	NN	-	-	-	-	-	1	-	-	-	-
Pennsylvania.....	82	-	1	-	-	-	1	-	-	-	9
EAST NORTH CENTRAL...	784	2	5	-	8	-	10	-	5	10	172
Ohio.....	121	-	-	-	-	-	4	-	4	-	73
Indiana.....	119	-	-	-	1	-	-	-	1	5	28
Illinois.....	194	1	4	-	7	-	1	-	-	5	34
Michigan.....	249	1	1	-	-	-	4	-	-	-	12
Wisconsin.....	101	-	-	-	-	-	1	-	-	-	25
WEST NORTH CENTRAL...	318	1	2	1	11	1	3	-	-	25	417
Minnesota.....	5	-	1	-	-	-	-	-	-	5	78
Iowa.....	125	-	-	-	1	-	2	-	-	3	46
Missouri.....	12	1	1	-	3	-	-	-	-	2	87
North Dakota.....	83	-	-	-	-	-	-	-	-	2	67
South Dakota.....	10	-	-	1	1	-	-	-	-	3	60
Nebraska.....	43	-	-	-	-	1	1	-	-	3	30
Kansas.....	40	-	-	-	6	-	-	-	-	7	49
SOUTH ATLANTIC.....	1,097	-	13	-	7	1	17	1	13	9	251
Delaware.....	14	-	-	-	-	-	-	-	-	-	-
Maryland.....	220	-	-	-	-	-	2	-	-	-	-
Dist. of Columbia..	5	-	-	-	-	-	1	-	-	-	-
Virginia.....	337	-	4	-	-.	-	2	1	3	4	131
West Virginia.....	312	-	-	-	I	-	1	-	-	2	43
North Carolina.....	10	-	4	-	-	-	2	-	9	1	3
South Carolina.....	3	-	-	-	2	-	3	-	-	-	-
Georgia.....	30	-	1	-	3	1	2	-	1	1	48
Florida.....	166	-	4	-	1	-	4	-	-	1	26
EAST SOUTH CENTRAL...	1,526	-	15	-	7	5	22	1	5	17	427
Kentucky.....	51	-	-	-	1	3	11	1	3	4	83
Tennessee.....	1,138	-	8	-	4	-	5	-	2	11	311
Alabama.....	110	-	5	-	-	-	4	-	-	2	31
Mississippi.....	227	-	2	-	2	2	2	-	-	-	2
WEST SOUTH CENTRAL...	999	-	11	2	15	-	17	1	5	28	383
Arkansas.....	-	-	3	1	3	-	3	1	1	2	56
Louisiana.....	1	-	1	-	2	-	11	-	-	1	31
Oklahoma.....	82	-	-	1	7	-	-	-	3	12	113
Texas.....	916	-	7	-	3	-	3	-	1	13	183
MOUNTAIN.....	1,240	-	-	-	7	-	15	1	4	5	58
Montana.....	51	-	-	-	1	-	1	-	-	-	-
Idaho.....	45	-	-	-	-	-	-	-	-	-	-
Wyoming.....	24	-	-	-	2	-	-	-	-	-	4
Colorado.....	772	-	-	-	1	-	11	1	4	3	8
New Mexico.....	191	-	-	-	-	-	-	-	-	-	15
Arizona.....	62	-	-	-	-	-	3	-	-	2	31
Utah.....	95	-	-	-	3	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	1,284	-	8	-	3	1	31	-	3	2	108
Washington.....	269	-	-	-	2	-	-	-	-	-	-
Oregon.....	52	-	-	-	-	-	-	-	-	-	1
California.....	828	-	6	-	1	I	28	-	3	2	107
Alaska.....	37	-	-	-	-	-	-	-	-	-	-
Hawaii.....	98	-	2	-	-	-	3	-	-	-	-
Puerto Rico.....	6	-	4	-	-	-	4	-	-	2	18

Week No. 21

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MAY 27, 1967

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	706	427	30	37
Boston, Mass.	239	134	8	11
Bridgeport, Conn.	45	28	2	2
Cambridge, Mass.	30	18	-	1
Fall River, Mass.	29	19	2	-
Hartford, Conn.	46	22	2	5
Lowell, Mass.	20	9	-	2
Lynn, Mass.	25	22	2	-
New Bedford, Mass.	45	30	2	4
New Haven, Conn.	36	17	1	3
Providence, R. I.	50	26	1	7
Somerville, Mass.	13	7	1	1
Springfield, Mass.	37	27	3	-
Waterbury, Conn.	26	20	-	-
Worcester, Mass.	65	48	6	1
MIDDLE ATLANTIC:	3,151	1,888	100	146
Albany, N. Y.	50	26	1	3
Allentown, Pa.	39	23	1	1
Buffalo, N. Y.	131	73	-	5
Camden, N. J.	44	23	3	3
Elizabeth, N. J.	30	18	2	1
Erie, Pa.	50	34	4	1
Jersey City, N. J.	59	38	-	1
Newark, N. J.	92	47	6	6
New York City, N. Y.	1,608	949	47	78
Paterson, N. J.	44	32	-	2
Philadelphia, Pa.	410	251	7	16
Pittsburgh, Pa.	199	114	2	7
Reading, Pa.	59	36	1	3
Rochester, N. Y.	96	65	14	6
Schenectady, N. Y.	35	28	3	1
Scranton, Pa.	29	20	-	-
Syracuse, N. Y.	50	33	2	4
Trenton, N. J.	50	33	4	4
Utica, N. Y.	33	21	1	2
Yonkers, N. Y.	43	24	2	2
EAST NORTH CENTRAL:	2,673	1,476	90	138
Akron, Ohio	77	42	-	4
Canton, Ohio	44	27	3	5
Chicago, Ill.	772	417	31	28
Cincinnati, Ohio	165	89	3	5
Cleveland, Ohio	212	109	1	20
Columbus, Ohio	109	61	2	10
Dayton, Ohio	95	46	3	5
Detroit, Mich.	363	200	6	16
Evansville, Ind.	40	28	1	2
Flint, Mich.	57	28	3	6
Fort Wayne, Ind.	36	15	3	-
Gary, Ind.	39	21	5	7
Grand Rapids, Mich.	51	30	8	5
Indianapolis, Ind.	172	92	3	7
Madison, Wis.	37	24	-	2
Milwaukee, Wis.	125	76	6	5
Peoria, Ill.	40	27	1	4
Rockford, Ill.	29	21	4	-
South Bend, Ind.	45	26	3	4
Toledo, Ohio	106	64	3	1
Youngstown, Ohio	59	33	1	2
WEST NORTH CENTRAL:	859	525	26	45
Des Moines, Iowa	61	43	1	-
Duluth, Minn.	26	14	-	3
Kansas City, Kans.	37	22	2	6
Kansas City, Mo.	157	100	4	8
Lincoln, Nebr.	25	16	2	-
Minneapolis, Minn.	120	68	2	5
Omaha, Nebr.	76	50	2	3
St. Louis, Mo.	229	135	6	18
St. Paul, Minn.	84	56	3	1
Wichita, Kans.	44	21	4	1
SOUTH ATLANTIC:	1,122	592	45	63
Atlanta, Ga.	129	59	4	10
Baltimore, Md.	233	113	6	16
Charlotte, N. C.	43	15	-	4
Jacksonville, Fla.	74	35	4	2
Miami, Fla.	81	44	-	6
Norfolk, Va.	56	26	4	1
Richmond, Va.	64	39	1	1
Savannah, Ga.	47	18	4	6
St. Petersburg, Fla.	83	71	3	1
Tampa, Fla.	84	55	11	1
Washington, D. C.	180	93	5	8
Wilmington, Del.	48	24	3	7
EAST SOUTH CENTRAL:	551	305	12	36
Birmingham, Ala.	93	52	2	5
Chattanooga, Tenn.	49	28	2	2
Knoxville, Tenn.	49	34	1	3
Louisville, Ky.	77	44	1	9
Memphis, Tenn.	134	70	1	9
Mobile, Ala.	37	16	-	2
Montgomery, Ala.	33	22	1	1
Nashville, Tenn.	79	39	4	5
WEST SOUTH CENTRAL:	1,090	517	35	72
Austin, Tex.	34	22	4	1
Baton Rouge, La.	31	14	-	3
Corpus Christi, Tex.*	26	12	-	2
Dallas, Tex.	149	70	2	8
El Paso, Tex.	35	15	2	4
Fort Worth, Tex.	70	40	3	3
Houston, Tex.	203	85	4	13
Little Rock, Ark.	59	23	1	7
New Orleans, La.	174	77	2	17
Oklahoma City, Okla.	64	35	2	1
San Antonio, Tex.	113	57	2	7
Shreveport, La.	53	20	6	2
Tulsa, Okla.	79	47	7	4
MOUNTAIN:	433	242	24	24
Albuquerque, N. Mex.	38	21	6	2
Colorado Springs, Colo.	24	9	1	2
Denver, Colo.	108	70	5	6
Ogden, Utah	23	10	-	-
Phoenix, Ariz.	86	48	6	3
Pueblo, Colo.	31	16	-	1
Salt Lake City, Utah	54	34	1	3
Tucson, Ariz.	69	34	5	7
PACIFIC:	1,636	1,029	47	63
Berkeley, Calif.	13	9	-	1
Fresno, Calif.	57	32	2	3
Glendale, Calif.	23	14	-	-
Honolulu, Hawaii	42	25	-	5
Long Beach, Calif.	68	43	4	1
Los Angeles, Calif.	551	361	9	19
Oakland, Calif.	88	54	1	-
Pasadena, Calif.	29	24	-	1
Portland, Oreg.	127	82	4	4
Sacramento, Calif.	80	51	1	1
San Diego, Calif.	114	67	6	3
San Francisco, Calif.	159	92	6	8
San Jose, Calif.	39	23	5	2
Seattle, Wash.	151	88	5	9
Spokane, Wash.	51	35	-	2
Tacoma, Wash.	44	29	4	4
Total	12,221	7,001	409	624

*Estimate - based on average percent of divisional total.

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	268,407
All Causes, Age 65 and over	155,033
Pneumonia and Influenza, All Ages	10,391
All Causes, Under 1 Year of Age	13,459

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TYPHOID FEVER – Louisiana

(Continued from page 170)

night with relatives in Shreveport, he entered the hospital, where he was cared for by a relative and his parents until discharged on January 5. He again spent the night with his Shreveport relatives, went home, and four days later returned with his mother, father, two siblings, and an aunt to visit the relatives in Shreveport.

Between January 10 and 23, seven members of the Shreveport family had symptoms of typhoid fever. Stool samples from the patient and 13 of his family or contacts were cultured and grew *S. typhi*, phage type B_2, although only eight of these persons had clinical signs of illness.

Epidemiologic investigation revealed such insanitary environmental conditions in both the index patient's home and his relatives' home as to provide ample opportunity for spread of infection. Food and activity histories of the index patient for the month prior to onset of illness suggested no probable source of infection.

Two cases of typhoid fever in persons who were excreting the same phage type and who had approximately the same onset dates as the index case were investigated in a neighboring parish. No link could be established between the 14 familial infections and these other two cases. Approximately 40 family contacts were immunized. Numbers of stool specimens from family members and contacts have contained no *S. typhi* organisms.

(Reported by John A. Trautmon, M.D., Chief, Section of Epidemiology, Division of Preventive Medicine, Louisiona Stote Boord of Health; ond on EIS Officer.)

INTERNATIONAL NOTES
QUARANTINE MEASURES

Immunizotion Information for Internotional Trovel 1965-66 edition–Public Heolth Service Publication No. 384

The following information should be added to the list of Yellow Fever Vaccination Centers in Section 6:

Page 82

City:	Spartanburg, South Carolina
Center:	Spartanburg County Health Department
Clinic Hours:	Wednesday, 2 p.m.
Fee:	Yes

ERRATUM: Vol. 16, No. 19, p. 160:

Line 3 in "Quarantine Measures" should read: 1. Section 2 – Measles – p. 16.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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CHIEF, EPIDEMIOLOGY PROGRAM A.D. LANGMUIR, M.D.
ACTING CHIEF, STATISTICS SECTION IDA L. SHERMAN, M.S.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
NATIONAL COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

U.S. DEPARTMENT OF
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